



HIGHER EDUCATION INSTITUTE CONDORCET PROVINCE OF HAINAUT

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The Research unit of « **Green Chemistry and Biobased Products** »
PhD B. Moreau

This unit of research is mainly focused on the production of molecules with a high added value from either food waste or industrial co-products.

Ongoing projects:

- **ARES 2017-2022: « Production and Immobilization of recombinant Dextranases using Residual of Sugarcane AgroIndustry »;**

Consortium: HEPH, Meurice R&D, HENALLUX (Be); SUPAGRO Montpellier (Fr); ICIDCA and University of Havana (Cu)

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Ongoing projects:

- **First HE 09-2017 to 09-2019** « Synthesis, purification and characterization of new set of glucuronate esters using biocatalysts » (industrial partner: TensioFix);
- **DGO3 Project:** Synthesis of a new set of surfactants from the waste of Brewery spent grains (collaboration: UCL, CRA de Gembloux); 10 or 11-2018 to 11-2022.

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Projects under development:

- Wagralim-Greenwin (Be) and CRIBIQ (Ca) Project:

« Valorization of whey into molecules with an high value added ».

(Collaboration with Gembloux Agro BioTech, CNETE, UQTR, INNOFIBRE (Ca) + a Belgian industrial in oleochemistry) 2019.

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International Projects under development:

- « **Valorization of brewery spent grain into molecules with an high value added** ». (Collaboration with CEBB (AgroParisTech), UTCompiègne and Oléon) Projet ANR (Fr) 2019.
- « **Synthesis of a new set of surfactants from solid fermentation** ». (Collaboration with SENAI, INT, UFRJ and FIOCRUZ (Br) + Brazilian industrial; Fraunhofer (D)); 2019.

Researches inside the HEPH_Condorcet :
Green Chemistry and Biobased Products

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International Projects under development:

- Collaboration with UMons « **Synthesis of a new bioplastic for agriculture** »;
- Collaboration with AGROSUP Dijon (Fr), TEI and Polytechnic Faculty of Athens (Gr) « **Valorization of liquid effluent coming from Olive oil manufactory into biobased surfactant molecules** »;
- Collaboration with UCL (Prof D. Debecker) and University of Sherbrooke (Ca);



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Collaborations:

- Belgium: Institut Meurice R&D, Henallux, UCL, Gembloux Agro BioTech (Ulg), UMONS.

: TensioFix, Brasserie des Carrières, REALCO, Galactic, Vandeputte, Olean, ...

- France: Université de Bourgogne (Dijon), AgroSup Dijon, SupAgro (Montpellier), AgroParisTech (CEBB), UTC,

- Grèce: TEI (Kalamata) and National Technical University of Athens



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Collaborations:

- Cuba: ICIDCA, University of Havana
- Brésil: SENAI, INT, UFRJ and FIOCRUZ
- Canada: UQTR, CNETE, INNOFIBRE, Université de Sherbrooke; Sani

Marc

